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	Application No.	Applicant(s)	4	
	09/703,144	HOYLE ET AL.	•	
Notice of Allowability	Examiner	Art Unit		
	Barry J. O'Brien	2183		
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wi (OR REMAINS) CLOSED in ) or other appropriate commit IGHTS. This application is s	ith the correspondence address n this application. If not included	uros TUIS	
1. This communication is responsive to <u>RCE filed on 7/15/200</u>	<u>04</u> .			
2.  The allowed claim(s) is/are <u>1-2, 4, 10-11, 13, 15-19, 20-24 and 17-25, respectively</u> .	and 25-33, which have bee	n renumbered as 1-2, 3, 9-10, 11	, 4-8, 12-16 <u>,</u>	
3. $\boxtimes$ The drawings filed on <u>31 October 2000</u> are accepted by the	e Examiner.			
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority un</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		or (f).		
2.   ☐ Certified copies of the priority documents have				
<ol><li>Copies of the certified copies of the priority doc</li></ol>	cuments have been received	d in this national stage application	n from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	a reply complying with the requir	rements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA s reason(s) why the oath or	AMINER'S AMENDMENT or NOT declaration is deficient.	ICE OF	
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached				
1)  hereto or 2)  to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on th	re drawings in the front (not the bar R 1.121/d).	ck) of	
7. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATE	ERIAL must be submitted. Note	e the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 <b>-</b> N.C. (1.4	·		
Notice of References Cited (P10-892)     Notice of Draftperson's Patent Drawing Review (PT0-948)		formal Patent Application (PTO-15	52)	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08	Paper No./N	ummary (PTO-413), Mail Date Amendment/Comment		
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	,			
of Biological Material	8. ⊠ Examiner's 9. ☐ Other	Statement of Reasons for Allowar -	nce	
	,			

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#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

2. Please replace the title with the following: --Microprocessor with branch-decrement instruction that provides a target and conditionally modifies a test register if the register meets a condition--.

#### **REASONS FOR ALLOWANCE**

- 3. The following is an examiner's statement of reasons for allowance: Claims 1-2, 4 and 15-19 were previously noted as being allowable. The Applicant's arguments with respect to claims 10-11, 13 and 20-33 are persuasive.
- 4. The Applicant argues with respect to claim 10 that the Intel registers CX and ECX of the prior art of record are not plural distinct registers because ECX includes all of the contents of the CX register (see p.12 of amendment filed 7/15/04). The examiner agrees with the Applicant's argument. The prior art of record has taught a "logical description" of a method, rather than the specific digital system implementing such a method. Thus the added limitation of defining an instruction that specifies a test register from amongst a plurality of test registers makes the claim language allowable over the "logical description", as the "logical description" does not define the ability to specify a specific test register within the branch decrement instruction. Furthermore, as

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noted in regards to claims 1-2, 4 and 15-19 in the Final Rejection mailed on 3/24/04, the prior art of record has taught the modification of the test registers being an unconditional operation, while the invention as claimed in claim 10 recites the decrement circuitry conditionally providing a decremented value of the test register to the test register (see paragraph 25, "Allowable Subject Matter", of Final Rejection mailed 3/24/04). Thus for the reasons above, claim 10 and its dependent claims are allowable over the prior art of record.

5. The Applicant argues with respect to claim 25 that prior art of record has taught the selection of Intel registers CX or ECX based on the current address size, rather than based on an operand filed of a conditional branch-decrement instruction (see p.14 of amendment filed 7/15/04). The examiner agrees with the Applicant's argument. The prior art of record has taught a "logical description" of a method, rather than the specific digital system implementing such a method. Thus the added limitation of defining an instruction which includes an operand field specifying a specific test register makes the claim language allowable over the "logical description", as the "logical description" does not define the ability to specify a specific test register within an operand field of the branch decrement instruction. Furthermore, as noted in regards to claims 1-2, 4 and 15-19 in the Final Rejection mailed on 3/24/04, the prior art of record has taught the modification of the test registers being an unconditional operation, while the invention as claimed in claim 25 recites the decrement circuitry conditionally providing a decremented value of the test register to the test register (see paragraph 25, "Allowable Subject Matter", of Final Rejection mailed 3/24/04). Thus for the reasons above, claim 25 and its dependent claims are allowable over the prior art of record.

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The Applicant argues with respect to claim 30 that the prior art of record has not taught 6. that the branch address is a combination of a displacement field of the conditional branchdecrement instruction and the program counter contents (see p.14 of amendment filed 7/15/04). The examiner agrees with the Applicant's argument. The prior art of record has taught a "logical description" of a method, rather than the specific digital system implementing such a method. Thus the added limitation of defining an instruction that includes a displacement field that can be combined with the program counter to make the branch address makes the claim language allowable over the "logical description", as the "logical description" does not define the ability to specify a displacement field within the branch decrement instruction. Furthermore, as noted in regards to claims 1-2, 4 and 15-19 in the Final Rejection mailed on 3/24/04, the prior art of record has taught the modification of the test registers being an unconditional operation, while the invention as claimed in claim 30 recites the decrement circuitry conditionally providing a decremented value of the test register to the test register (see paragraph 25, "Allowable Subject Matter", of Final Rejection mailed 3/24/04). Thus for the reasons above, claim 30 and its dependent claims are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### Conclusion

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- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is reminded that in amending in response to a rejection of claims, the patentable novelty must be clearly shown in view of the state of the art disclosed by the references cited and the objections made. Applicant must also show how the amendments avoid such references and objections. See 37 CFR § 1.111(c).
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry J. O'Brien whose telephone number is (703) 305-5864.

  After October 12<sup>th</sup>, 2004, the examiner can be reached at (571) 272-4171. The examiner can normally be reached on Mon.-Fri. 6:30am-4:00pm, with the exception of first Friday of every biweek.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached at (703) 305-9712, or at (571) 272-4162 on or after October 12<sup>th</sup>, 2004. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Examiner

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BJO 9/1/2004

EDDIE CHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100